09/831762 JC05 Rec'd PCT/PTO 1 1 MAY 2001

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Expres	s Mail No.:	EL 822864084 US Da	te: <u>Ma</u> y	<u>/ 11, 2001</u>			
37 CFF	I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service und 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.						
	ANTONELLA FUSILLO						
(Name	(Name of person mailing paper or fee)  (Signature)						
TRA	NSMIT	TAL LETTER TO THE UNITED STA	TES		Attorney's Docket No:		
OFF	OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371  STOIBER-5						
INTE	INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIR						
TITLE	OF INVEN	PCT/EP99/08713		November 12, 1999	November 18, 1998		
		CORE FOR LINEAR MOTORS					
		FOR DO/EO/US STOIBER					
		erewith submits to the United S	tatac	Designated/Elected Office	- (DO(EO/HO) //		
follo	wing it	ems and other information:	lales	b Designated/Elected Office	e (DO/EO/US) the		
	1. [X] This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.						
	2.[]	This is a SECOND or SUBSEQUENT subm	nission	of items concerning a filing under 35	U.S.C. 371.		
o production of the second	3. [ <b>X</b> ]	This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).					
He deal deal deal deal	4. []	A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.					
5. [X] A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. [X] is transmitted herewith (required only if not transmitted by the International Bureau). b. [] has been transmitted by the International Bureau. c. [] is not required, as the application was filed in the United States Receiving Office (RO/US)  6. [X] A translation of the International Application into English (35 U.S.C. 371(c)(2)).  7. [] Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. [] are transmitted herewith (required only if not transmitted by the International Bureau). b. [] have been transmitted by the International Bureau. c. [] have not been made; however, the time limit for making such amendments has NOT expired. d. [] have not been made and will not be made.  8. [] A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
					ureau).		
					3)).		
	9. [ <b>X</b> ]						
	10.[]	A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).					
ltems	s 11. to	16. concern other document(s)	or in	formation included:			
4	11. [ <b>X</b> ]	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.					
	_12. <b>[X</b> ]	phase state of GLT Vo.25 and 3.51 is included.					
	13. [ <b>X</b> ]						
	14. []	[] A substitute specification.					
	15. [] A change of power of attorney and/or address letter.						
	16. [ <b>X</b> ]	6. [X] Other items or information: International Search Report and Form PTO-1449					

U.S.APPLICATION NO. (if known, see 37 CFR 1.5)	INTERNATIONAL A	APPLICATION NO.	ATTORNEY'S DOCKET NO.
09/831762	PCT	T/EP99/08713	STOIBER-5
17. [X] The following fees are submitted : BASIC NATIONAL FEE (37 C.F.R. 1.492)			
[X] For filing with EPO or JPO search repo	9 \$ 860.00		
[] International preliminary examination fee paid to USPTO (37 C.F.R. 1.492(a)(1)) \$ 690.00			00
[ ] No international preliminary examinatio but international search fee paid to USF	00		
[ ] Neither international preliminary examination fee paid to USPTO (37 C.F.R. 1.492(a)(3)) nor international search fee paid to USPTO (37 C.F.R. 1.445(a)(2)) \$1,000.00			
[ ] International preliminary examination fe and all claims satisfied provisions of Po	00		
Surcharge of \$130.00 for furnishing the oath or dearliest claimed priority date (37 CFR 1.492(e)).	eclaration later than	[ ] 20 [ ] 30 months from	n the
Claims	Number Field	Rate	
Total Claims	20-20	x\$ 18.00	
Independent Claims	2-3	x\$ 80.00	
Multiple dependent claims (if applicable)		x \$270.00	
g win	TOT	AL OF ABOVE CALCULATION	ONS \$860.00
Applicant claims small entity status pursuant to 37 C.F.R. 1.27. Reduction by 1/2 for filing by small entity.			
		SUBTO	TAL \$860.00
Processing fee of \$130.00 for furnishing the Englishe earliest claimed priority date 37 CFR 1.492(f).			
Lizz			FEE \$860.00
Fee for recording the enclosed assignment (37 CF an appropriate cover sheet (37 CFR 3.28, 3.31).	FR 1.21(h)). The assi \$40.00 per property	gnment must be accompanie +	d by \$ 40.00
mg		TOTAL FEES ENCLOS	
<b>1</b> •		Amount to be refu	Ψ000.00
*			rged
a. [X] A check in the amount of \$900.00 to cover b. [] Please charge my Deposit Account No. 0			or the chave food Advallants
copy of this sheet is enclosed.	o-oooz iii tile allioui	to 6000	er the above fees. A duplicate
. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>06-0502</u> . A duplicate copy of this sheet is enclosed.			
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b) must be filed and granted to restore the application to pending status.			
Send all correspondence to:			
HENRY M. FEIEREISEN 850 Fifth Avenue Suite 3220 New York, N.Y. 10118			
HENRY M. FEIEREISEN Registration No. 31,084			

Date: May 11, 2001

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: STOIBER-5

In re Application of:	)
DIETMAR STOIBER	)
Int. Appl. No.: PCT/EP99/08713	) )
Int. Filing Date: November 12, 1999	) }
For: WINDING CORE FOR LINEAR MOTORS	) )

# PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Express Mail mailing label number: <u>EL 822864084 US</u>
Date of Deposit: <u>May 11, 2001</u>

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

ANTONELLA FUSILLO
(Name of person mailing paper or fee)

thelle

SIR:

Preliminary to the first Official Action in the above-entitled application, please amend the application as follows.

The Commissioner is hereby authorized to charge fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

### **VERSION WITH MARKINGS TO SHOW CHANGES MADE:**

### **IN THE SPECIFICATION:**

Before paragraph [0001], add the heading --BACKGROUND OF THE INVENTION--.

Before paragraph [0005], add the heading --SUMMARY OF THE INVENTION ---.

Delete paragraph [0006].

Before paragraph [0013], add the heading --BRIEF DESCRIPTION OF THE DRAWING--.

Before paragraph [0018], add the heading --DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS--.

Page 8, after the heading "CLAIMS" and before the first claim add --What is claimed is:--.

#### IN THE CLAIMS:

Cancel claims 1 to 11 without prejudice.

Add the following claims:

12. (New) A winding core for use in a linear motor, comprising a yoke having protruding teeth that define slots for receiving at least one winding, wherein each tooth has a yoke-proximal portion and yoke-distal portion, wherein the yoke-proximal portion has in a direction perpendicular to a movement direction of the linear motor a lateral dimension which is greater than a lateral dimension of the yoke-distal portion.

13. (New) The winding core of claim 12, wherein the dimension of the yoke-

proximal portion on one side is greater by about 5% than the dimension of the

yoke-distal portion.

14. (New) The winding core of claim 12, wherein the dimension of the yoke-

proximal portion on each side is greater by up to 5% than the dimension of

the yoke-distal portion.

15. (New) The winding core of claim 13, wherein the teeth are arranged in

symmetry in a direction perpendicular to the movement direction of the linear

motor.

16 (New) The winding core of claim 13, wherein each tooth is formed with at

least one shoulder to thereby widen the dimension of the yoke-proximal

portion.

17. (New) The winding core of claim 13, wherein each tooth is formed with a

slanted transition between the yoke-proximal portion and the yoke-distal

portion.

18. (New) The winding core of claim 13, wherein the yoke-distal portion of each

tooth begins at a location which is distant from the yoke by not more than half

a tooth length.

19. (New) The winding core of claim 13, wherein the yoke-distal portion is connected to the yoke-proximal portion by a continuously expanding

transition.

20. (New) The winding core of claim 13, wherein the yoke has a lateral

dimension which corresponds to the lateral dimension of the yoke-proximal

portion of each tooth.

21. (New) The winding core of claim 13, wherein the yoke has a lateral

dimension which corresponds over its entire length to the lateral dimension of

the yoke-proximal portion of each tooth.

22. (New) A linear motor, comprising:

a primary part; and

a secondary part;

wherein at least one of the primary part and the secondary part has a winding

core including a yoke having protruding teeth that define slots for receiving at

least one winding, wherein each tooth has a yoke-proximal portion and yoke-

distal portion, wherein the yoke-proximal portion has in a direction

perpendicular to a movement direction of the linear motor a lateral dimension

which exceeds a lateral dimension of the yoke-distal portion.

23. (New) The linear motor of claim 22, wherein the dimension of the yoke-

proximal portion on one side is greater by about 5% than the dimension of the

yoke-distal portion.

24. (New) The linear motor of claim 22, wherein the dimension of the yoke-

proximal portion on each side is greater by up to 5% than the dimension of

the yoke-distal portion.

25. (New) The linear motor of claim 22, wherein the teeth are arranged in

symmetry in a direction perpendicular to the movement direction of the linear

motor.

26. (New) The linear motor of claim 23, wherein each tooth is formed with at

least one shoulder to thereby widen the dimension of the yoke-proximal

portion.

27. (New) The linear motor of claim 22, wherein each tooth is formed with a

slanted transition between the yoke-proximal portion and the yoke-distal

portion.

28. (New) The linear motor of claim 22, wherein the yoke-distal portion of each

tooth begins at a location which is distant from the yoke by not more than half

a tooth length.

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Docket No.: STOIBER-5 Int. Appl. No.: PCT/EP99/08713

29. (New) The linear motor of claim 22, wherein the yoke-distal portion is connected to the yoke-proximal portion by a continuously expanding transition.

- 30. (New) The linear motor of claim 22, wherein the yoke has a lateral dimension which corresponds to the lateral dimension of the yoke-proximal portion.
- 31. (New) The linear motor of claim 22, wherein the yoke has a lateral dimension which corresponds over its entire length to the lateral dimension of the yoke-proximal portion.

REMARKS

This Amendment is submitted preliminary to the issuance of an Office

Action in the present application.

Applicant has canceled original claims 1 to 11 and submits herewith new

claims 12 to 31to better encompass the full scope and breadth of the invention

notwithstanding applicant's belief that the claims would have been allowable as

originally filed. Accordingly, applicant asserts that no claims have been narrowed

within the meaning of the Festo-decision. Festo Corp. v. Shoketsu Kinsoku Kogyo

Kabushiki Co., 56 USPQ2d 1865 (Fed. Cir. Nov. 29, 2000)(en banc). In addition,

applicant has amended the specification to present it in proper form and language

by providing proper headings and deleting any reference to particular claim

numbers.

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177 ļ === When the Examiner takes this application up for action, he is requested to

take the foregoing into account.

Respectfully submitted,

By:

Henry M. Feiereisen Agent for Applicant

Reg. No. 31,084

Date: May 11, 2001 350 Fifth Avenue Suite 3220

New York, N.Y. 10118

(212) 244-5500

HMF:af

### WINDING CORE FOR LINEAR MOTORS

The invention relates to a winding core for linear motors, having a yoke and protruding teeth for formation of slots for receiving a winding. Such winding cores are used for the active and/or reactive parts of linear motors (also designated as primary parts and secondary parts).

[0002] The flux density of the magnetic field induced by the winding can become very great in the teeth of such winding cores. The magnetic flux density may hereby increase to such an extent that the saturation magnetization for the material of the winding core is reached, thereby decreasing the efficiency of the linear motor.

In order to reduce the magnetic flux density in the tooth, the tooth cross section can be enlarged. When the tooth cross section is enlarged in movement direction of the linear motor, the slot widths are hereby decreased, resulting, on the one hand, in an increase of the flux leakage across the slot in view of the smaller distance between the teeth. Moreover, there is less space in the slots for the winding. Further, the hysteresis loss increases in the tooth as a consequence of the greater tooth mass.

[0004] A further possibility to reduce the magnetic flux density in the tooth is an enlargement of its lateral cross section perpendicular to the movement

direction of the motor. This, too, results, however, in an increased flux leakage across the slot. Moreover, this measure also leads to an increase in tooth mass, resulting in a higher dissipation.

[0005] It is an object of the present invention to effectively eliminate the afore-stated drawbacks and to reduce the magnetic flux density in the tooth.

[0006] This object is attained by a winding core according to claim 1.

[0007] The solution is based on the recognition that the flux density in the tooth is the greatest in the portion adjacent to the yoke and decreases with increasing distance from the yoke as a consequence of the increasing flux leakage across the slot.

The teeth have thus a yoke-proximal portion and a yoke-distal portion. The yoke-proximal portion is widened with respect to the yoke-distal portion laterally in the direction perpendicular to the movement direction of the linear motor. In this way, the cross sectional area of the teeth is enlarged in a zone where the magnetic flux density is the highest. On the other hand, the tooth cross section is not enlarged in a zone where the flux leakage across the slot is the highest, namely in the yoke-distal portion of the teeth.

[0009] The widening of the yoke-proximal ends of the teeth amounts, preferably, to about 10%.

[0010] In particular, the widening may be implemented symmetrically on both sides of the teeth.

[0011] The widening of the teeth may be realized in the form of at least one shoulder. In particular, the at least one shoulder is not distanced from the yoke any farther than half the tooth length.

[0012] As an alternative, the widening of the teeth may also be realized via a slanted shoulder.

[0013] Embodiments will now be described in more detail with reference to the figures.

**[0014]** FIG. 1 shows the distribution of the flux density in a winding core according to the prior art;

[0015] FIG. 2 shows a side view of a first exemplified embodiment of the winding core according to the invention perpendicular to the movement direction of the motor;

**[0016]** FIG. 3 shows a vertical section of the first exemplified embodiment transversely to the movement direction of the motor through the yoke and a tooth of the winding core;

[0017] FIG. 4 shows a vertical section of a second exemplified embodiment of the winding core according to the invention transversely to the movement direction of the motor through the yoke and a tooth of the winding core.

[0018] FIG. 1 illustrates the distribution of the flux density in a conventional winding core 1 (here the primary or active part), with the windings (not shown) receiving electric current. Reference numeral 2 denotes the reactive part (or secondary part) of the linear motor. The reactive part and the active part interact in a known manner.

The winding core includes a yoke 3 and teeth 4, with slots 5 being formed therebetween. It can be seen from the figure with respect to the center tooth that the magnetic flux density is the greatest in the region of the tooth 4, which adjoins the yoke 3. The flux density decreases with increasing distance from the yoke as a consequence of the flux leakage across the slot, which flux leakage increases between the teeth 4 as the distance from the yoke 3 increases.

[0020] FIG. 2 shows a side view, perpendicular to the movement direction according to the first exemplified embodiment of the winding core 1 according to the invention. The illustrated winding core 1 includes a return yoke 3 with protruding teeth 4. The teeth 4 define the boundaries for the slots 5 which receive the winding (not shown), i.e. the winding (or windings), are thus guided around the teeth.

The teeth 4 are wider on their yoke-proximal portion 7 than on their yoke-distal portion 6 (FIG. 3). The transition between both these portions 6 and 7 is configured as shoulder 8 having a smaller distance from the yoke 3 than its distance from the yoke-distal end surface 9 of the tooth 4. The windings (not shown) are so configured as to be wound around the widened portion 7 as well as around the non-widened portion 6.

The above-described configuration of the tooth results in a decrease of the magnetic flux density in the portion 7, without increasing the flux leakage across the slot in the area of the portion 6. The increase in tooth mass as a consequence of the enlargement of the portion 7 with respect to the portion 6 is fairly small compared to the overall mass of the tooth 4 so that dissipation as a consequence of hysteresis losses is only slightly increased.

[0023] The second exemplified embodiment (FIG. 4) differs from the first one only in that the transition between the yoke-distal portion 6' to the yoke-proximal portion 7' is realized via a slanted shoulder 10.

[0024] The configurations of the transition from the yoke-distal portion to the wider yoke-proximal portion of the tooth, as shown in both exemplified embodiments, are not the only options. For example, multiple shoulders or transitions with continuous or curved configurations are possible. The continuous widening may already commence on the yoke-distal end surface of the tooth, when the transitions are continuous from the yoke-distal portion to the yoke-proximal, wider portion. Also, there is no need for the tooth configuration to be symmetrical. It is, for example, possible that the transition to the wide portion of the tooth is different on both tooth sides, or only provided on one side of the tooth.

As shown in the sections according to FIGS. 3 and 4, the winding cores are each made of individual, stacked metal sheets. The tooth enlargements are hereby so realized that the respectively last lateral metal sheets (in the illustration 4 on each side) have different tooth lengths compared to all the remaining ones; multiple shoulders can hereby be realized by providing these metal sheets with different (outwardly decreasing) tooth lengths.

[0026] To clearly show the tooth lengths, the slot base is shown as continuous line in each of FIGS. 3 and 4.

[0027] FIG. 1 depicts that the flux density in the yoke-proximal portion of the tooth, directly adjacent the slot 5 and the yoke 3, is the greatest; this has been confirmed through calculation by using the finite element method, and FIG. 1 is based on such a calculation. It would thus basically be sufficient to widen only the respective portion of the teeth to reduce the flux density below the saturation magnetization.

In the illustrated exemplified embodiments, the yoke is, however, widened in addition over the entire length of the winding core so that also in this case the flux density is reduced. This can also be exploited on the other hand to reduce the height or thickness of the yoke 3 (perpendicular in the figures) because the hereby accompanying increase in flux density can be compensated by yoke enlargement. In this manner, linear motors of flatter configuration can be realized.

[0029] Furthermore, the widening of the yoke 3 between the teeth 4 may, for example, also be omitted so that the yoke does not exhibit a uniform width over the length of the linear motor, and material (and thus mass) can be saved.

#### CLAIMS

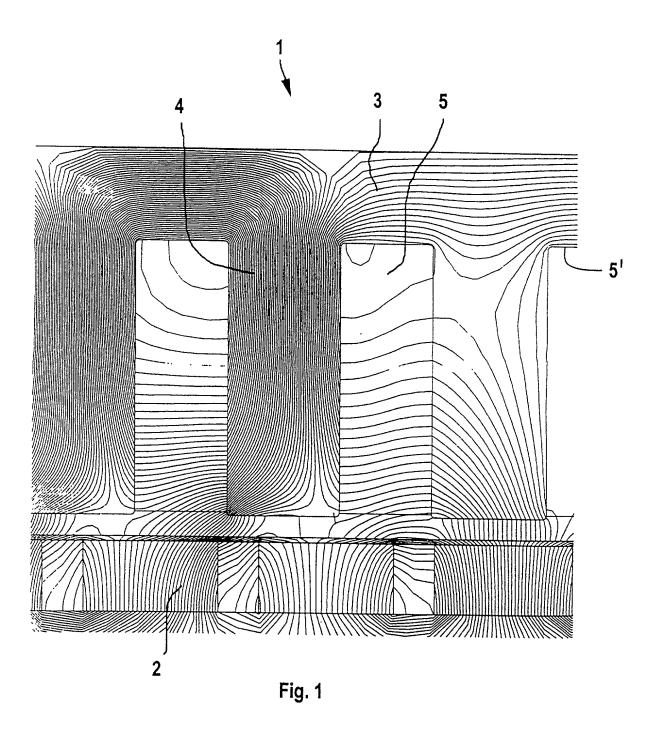
- 1. Winding Core for primary and secondary parts of a linear motors, comprising a yoke (3; 3') with protruding teeth (4; 4') that define slots (5) for receiving at least one winding, characterized in that each of the teeth (4; 4') has a yoke-proximal portion (7; 7') and a yoke-distal portion (6; 6'), wherein the yoke-proximal portion (7; 7') has a greater lateral dimension than the yoke-distal portion (6; 6') in the direction perpendicular to the movement direction of the linear motor.
- 2. Winding core according to claim 1, characterized in that the dimension of the yoke-proximal portion (7; 7') on one side is greater by about 5% than the dimension of the yoke-distal portion (6; 6').
- 3. Winding core according to claim 2, characterized in that the dimension of the yoke-proximal portion (7; 7') on each side is greater by up to 5% than the dimension of the yoke-distal portion (6; 6').
- Winding core according to claim 1, 2 or 3, characterized in that the teeth (4;
   4') are arranged in symmetry with respect to a direction perpendicular to the movement direction of the linear motor.

- 5. Winding core according to claim 1, 2, 3 or 4, characterized in that the teeth (4, 4') are formed with at least one shoulder (8; 10) to realize the widening of the dimension.
- 6. Winding core according to one of the claims 1 to 5, characterized by a slanted transition (10) between the yoke-proximal and yoke-distal portions.
- 7. Winding core according to one of the claims 1 to 6, characterized in that the beginning of the yoke-distal portion (6; 6') from the yoke (3; 3') is not farther away than half a tooth length.
- 8. Winding core according to claim 1, 2, 3 or 4, characterized in that the yoke-distal portion (6; 6') is connected to the yoke-proximal portion (7; 7') by a continuously widening dimension.
- 9. Winding core according to one of the preceding claims, characterized in that the yoke (3) has the same lateral dimensions as the yoke-proximal portion at least in the area of the teeth (4).
- 10. Winding core according to claim 9, characterized in that the yoke (3) has the same lateral dimensions as the yoke-proximal portion over the entire length.

11. Linear motor, comprising a primary part and a secondary part (2), characterized in that the primary part and/or the secondary part has a winding core according to one of the claims 1 to 10.

#### **ABSTRACT**

The invention relates to a winding core for linear motors with a yoke (3) with protruding teeth (4) that define slots (5) for receiving the windings, wherein each of the teeth has a yoke-proximal portion (7) and a yoke-distal portion (6). To decrease the flux density in the yoke-proximal portion, the latter is widened laterally, i.e. perpendicular to a movement direction of the linear motor, with respect to the yoke-distal portion.



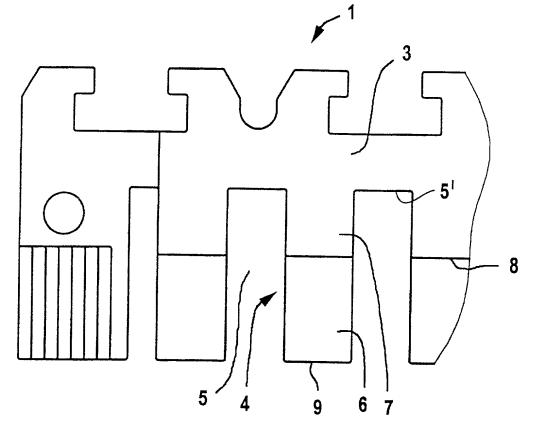
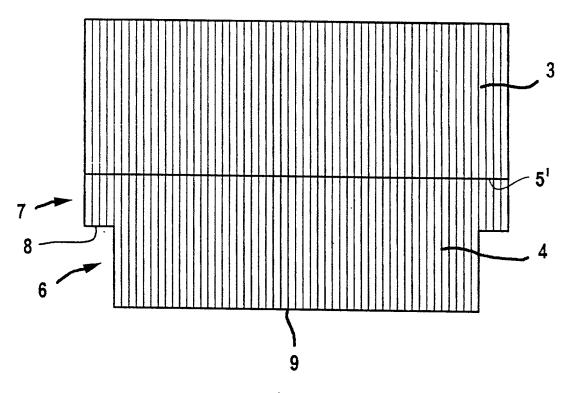


Fig. 2



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Fig. 3

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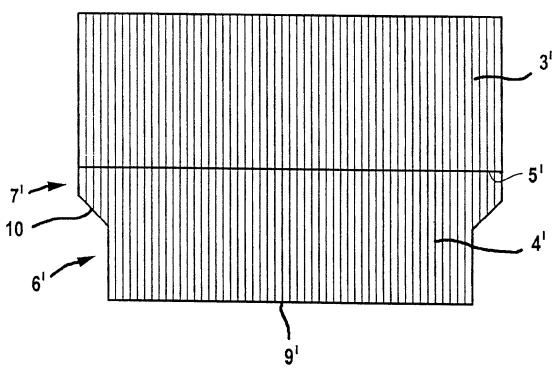


Fig. 4

# Declaration and Power of Attorney for Patent Application Erklärung für Patentanmeldungen mit Vollmacht German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

As a below named inventor, I hereby declare that:

daß mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,

My residence, post office address and citizenship are stated below next to my name.

daß ich, nach bestem Wissen, der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

#### WICKLUNGSKERN FÜR LINEARMOTOREN

deren Beschreibung (zutreffendes ankreuzen)

hier beigefügt ist. wurde angemeldet am 12. November 1999 unter der U.S.-Anmeldungs Nr. oder unter der Internationalen Anmeldenummer im Rahmen des Vertrags über die Zusammenarbeit auf dem Gebiet des Patentwesens (PCT) PCT/EP99/08713 und am (falls

abgeändert

zutreffend).

(if applicable).

Ich bestätige hiermit, daß ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell duch einen Zusatzantrag, wie oben abgeändert wurde.

erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen an, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Titel 37, Code of Federal Regulations, §1.56 von Belang sind.

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäss Titel 35, US-Code, §119(a)-(d), bzw. §365(b) aller unten angegebenen Auslandsanmeldungen für ein Patent oder Erfinderurkunden, oder §365(a) aller PCT internationalen Anmeldungen, welche wenigstens ein Land ausser den Vereinigten Staaten von Amerika benennen, und habe nachstehend durch ankreuzen sämtliche Auslandsanmeldungen für Patente oder internationale Erfinderurkunden oder PCT Anmeldungen angegeben, deren Anmeldetag dem der Anmeldung, für welche Priorität beansprucht wird, vorangeht.

#### WICKLUNGSKERN FÜR LINEARMOTOREN

the specification of which (check one)

is attached heroto

was filed on 12 November 1999 as United States Application Number or PCT International Application Number PCT/EP99/08713 was

amended on

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or Inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Applications (Frühere ausländische Anmeldungen)					Priority Claimed? Priorität beansprucht?	
198 53 237.7 (Number) (Nummer)	Germany (Country) (Land)	18/November/1 (Day/Month/Yea (Tag/Monat/Jah	ar Filed)	[X] Yes Ja	[ ] No Nein	
(Number) (Nummer)	(Country) (Land)	(Day/Month/Ye (Tag/Monat/Jah	•	[] Yes Ja	[ ] No Nein	
	hiermit gemäss Titel 35 rzug aller unten aufger		I hereby claim the benefit Code, §119(e) of any application(s) below			
(Application No. /	Anmeldenr.)	(Filing Date	/ Anmeldedatum)			
(Application No. /	Anmeldenr.)	(Filing Date	/ Anmeldedatum)			

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I heroby claim the benefit undor Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filling date of the prior application and the national or PCT international filling date of this application.

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosocute this application and transact all business in the Patent and Trademark Office connected therewith;

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